

When exposed to excess heat, cell may burst

For RadioShack Cat. No.: 23-149A, 23-449

| MATERIAL SAFETY DA                                  | ATA SHEET                        |                   |                       | Date: 3 Jan, 2003                     |  |
|---|----------------------------------|-------------------|-----------------------|---------------------------------------|--|
| Identity (As Used on Label and List)                |                                  | Note: Blank spa   | ces are not permitted | l if may item is not applicable or no |  |
| GP100AAKC   |                                  | information is av | vailable, the space m | ust be marked to indicate that.       |  |
| Section I   |                                  |                   |                       |                                       |  |
| Manufacturer's Name                                 |                                  | Emergency Tele    | phone Number          |                                       |  |
| GPI International Ltd. / GP Batteries (U.S.A.) Inc. |                                  |                   |                       |                                       |  |
| Address (Number, Street, City, State, and ZIP Code) | Telephone Number for information |                   |                       |                                       |  |
| F, Gold Peak Building, 30 Kwai Wing Road, Kwai Chu  |                                  | (852) 2484 3333   |                       |                                       |  |
| 11235 West Bernardo Court, San Diego, CA92127-1638  | (619) 674 5620                   |                   |                       |                                       |  |
| Section II - Hazardous Ingredients                  | /Identity Information            |                   |                       |                                       |  |
| Hazardous Components:                               |                                  |                   |                       |                                       |  |
| Description: Approximate % of total weight          |                                  |                   |                       |                                       |  |
|   |                                  |                   |                       |                                       |  |
| Ni(OH)2 (Nickel Hydroxide)                          | ; 20                             | Wt%               |                       |                                       |  |
|   |                                  |                   |                       |                                       |  |
| 30% KOH Solution (Potassium Hydroxide)              | ; 12                             | Wt%               |                       |                                       |  |
|   |                                  |                   |                       |                                       |  |
| Mercury   | ; <5 ppm                         |                   |                       |                                       |  |
|   |                                  |                   |                       |                                       |  |
| Lead  | ; Nil                            |                   |                       |                                       |  |
|   |                                  |                   |                       |                                       |  |
| cadmium   | ; 17                             | Wt%               |                       |                                       |  |
| Section III - Physical/Chemical Ch                  | aractorictics                    |                   |                       |                                       |  |
|   |                                  | <b>\</b> 1\       |                       |                                       |  |
| Boiling point                                       | Specific Gravity (H2C            |                   |                       |                                       |  |
| N.A.  | Maldin a Daint                   | N.A.              |                       |                                       |  |
| Vapor Pressure (mm Hg)                              | Melting Point                    | NI A              |                       |                                       |  |
| N.A.  | E                                | N.A.              |                       |                                       |  |
| Vapor Density (AIR =1)                              | Evaporation Rate                 | NI A              |                       |                                       |  |
| N.A. Solubility in Water                            | (Butyl Acetate =1)               | N.A.              |                       |                                       |  |
| N.A.  |                                  |                   |                       |                                       |  |
| Appearance and Odor                                 |                                  |                   |                       |                                       |  |
| Cylindrial Shape, o                                 | odorloss                         |                   |                       |                                       |  |
| Section IV - Fire and Explosion Ha                  |                                  |                   |                       |                                       |  |
| Flash Point (Method Used)                           | Flammable Lin                    | mits              | LEL                   | UEL                                   |  |
| N.A.  | i minimote En                    | N.A.              | N.A.                  | N.A.                                  |  |
| Extingushing Media                                  | l l                              | 11.21.            | 11.21.                | 11.71.                                |  |
| N.A.  |                                  |                   |                       |                                       |  |
| Special Fire Fighting Procedures                    |                                  |                   |                       |                                       |  |
| N.A.  |                                  |                   |                       |                                       |  |
| Unusual Fire and Explosion Hazards                  |                                  |                   |                       |                                       |  |
| The and Expression Hazards                          |                                  |                   |                       |                                       |  |



| Section V  | - Reactivity Data                |                            |                        |             |                                   |  |  |  |
|--|----------------------------------|----------------------------|------------------------|-------------|-----------------------------------|--|--|--|
| Stability  | Unstable                         | Conditions to Avoid        |                        |             |                                   |  |  |  |
|  |                                  |                            |                        |             |                                   |  |  |  |
|  | Stable X                         |                            |                        |             |                                   |  |  |  |
|  |                                  |                            |                        |             |                                   |  |  |  |
| Incompatibility (I   | Materials to Avoid)              |                            |                        |             |                                   |  |  |  |
|  |                                  |                            |                        |             |                                   |  |  |  |
| Hazardous Decon  | nposition or Byproducts          |                            |                        |             |                                   |  |  |  |
| When heated, bat   | tery may emit hazardous vapo     | urs of KOH/NaOH & Hg.      |                        |             |                                   |  |  |  |
| Hazardous  | May Occur                        | Conditions to Avoid        |                        |             |                                   |  |  |  |
| reactions  |                                  |                            |                        |             |                                   |  |  |  |
|  | Will Not Occur X                 |                            |                        |             |                                   |  |  |  |
| Coation \/I  | Llootth Llozord [                | ) oto                      |                        |             |                                   |  |  |  |
|  | - Health Hazard [                |                            |                        | .: 0        |                                   |  |  |  |
| Route(s) of Entry  | Inhalatio                        |                            | _                      | estion?     |                                   |  |  |  |
| TT 1:1 TT 1:/4   | 1.01                             | N.A.                       | N.A.                   |             | N.A.                              |  |  |  |
| Health Hazard (A   | cute and Chronic)                | NI A                       |                        |             |                                   |  |  |  |
| Caraina  | NTP?                             | N.A.                       | Managements? Of        | IIA D1      | -4-10                             |  |  |  |
| Carcinogenicity  | NIP!                             | LARC                       | Monographs? OS         | HA Regul    | ated?                             |  |  |  |
|  |                                  | N.A.                       | N.A.                   |             | N.A.                              |  |  |  |
| Signs and Sympto   | oms of Exposure                  | N.A.                       | N.A.                   |             | N.A.                              |  |  |  |
|  | yte leakage, skin will be itchly | when contaminated by elec  | trolyte                |             |                                   |  |  |  |
| Medical Condition  | •                                | when committee of elec     | a ory to:              |             |                                   |  |  |  |
|  | ated by Exposure                 | N.A.                       |                        |             |                                   |  |  |  |
|  | First Aid Procedures             |                            |                        |             |                                   |  |  |  |
|  |                                  | immediately with water. Fo | r eye contact, flush w | ith copiou  | s amounts of water for 15 minutes |  |  |  |
| and see physian.   |                                  | ·                          |                        |             |                                   |  |  |  |
| Section VI   | I - Precautions for              | Safe Handling a            | nd Use                 |             |                                   |  |  |  |
|  | n in Case Material is Released   |                            |                        |             |                                   |  |  |  |
| -  |                                  | •                          | rom leaker comes in c  | contact wit | h skin, wash immediately with     |  |  |  |
|  | ontact, flush with copious amo   |                            |                        |             | , ··                              |  |  |  |
|  | ,                                |                            |                        |             |                                   |  |  |  |
| Waste Disposal M   | Tethod                           |                            |                        |             |                                   |  |  |  |
| -  | since battery may explode.       |                            |                        |             |                                   |  |  |  |
|  | · · ·                            |                            |                        |             |                                   |  |  |  |
| Precaution to Be   | Taken in Handling and Storin     | g                          |                        |             |                                   |  |  |  |
| The battery is extremely sensitive to adverse effect of humidity. Be sure to store them in a place which is dry and subject to little temperature      |                                  |                            |                        |             |                                   |  |  |  |
| change. Do not place near the boiler or radiator, nor expose to the direct sunlight. Do not dispose of the battery in fire. Do not charge the battery. |                                  |                            |                        |             |                                   |  |  |  |
| Do not short-circuit the battery. Do not put in backward position. Do not disassemble the battery, handling in such manner can cause the battery       |                                  |                            |                        |             |                                   |  |  |  |
| to explode, leak and injury.   |                                  |                            |                        |             |                                   |  |  |  |
| Other Precautions  |                                  |                            |                        |             |                                   |  |  |  |
| Install batteries in accordance with equipment instructions. Replace all batteries in equipment at the same time. Do not mix battery systems of        |                                  |                            |                        |             |                                   |  |  |  |
| different types. Do not carry batteries loose in your pocket or carrying bag. Check batteries periodically when in use.                                |                                  |                            |                        |             |                                   |  |  |  |
| Section VIII - Control Measures  |                                  |                            |                        |             |                                   |  |  |  |
| -  | ction (Specify Type)             |                            |                        |             |                                   |  |  |  |
|  | (op)                             |                            |                        |             |                                   |  |  |  |
| Ventilation  | Local Exhausts                   |                            | Special                |             |                                   |  |  |  |
|  |                                  | N.A.                       |                        | N.A.        |                                   |  |  |  |
|  | Mechanical (General)             |                            | Other                  |             |                                   |  |  |  |
|  |                                  | N.A.                       |                        | N.A.        |                                   |  |  |  |
| Protective Gloves  | 3                                |                            | Eye Protection         |             |                                   |  |  |  |
|  |                                  | N.A.                       |                        | N.A.        |                                   |  |  |  |
| Other Protective   | Clothing or Equipment            |                            |                        |             |                                   |  |  |  |
|  |                                  | N.A.                       |                        |             |                                   |  |  |  |
| Work/Hygenic Pr  | ractices                         |                            |                        |             |                                   |  |  |  |
|  |                                  | N.A.                       |                        |             |                                   |  |  |  |